

AMENDMENTS TO THE CLAIMS

1. (currently amended) A linear motor comprising:

an outer case;

a stator installed at an inner side the outer case and having a first and a second armature coil parts, said the first armature coil part of the stator having an annular shape complementarily fittable within the outer case, and said the second armature coil part of the stator being assembled in the outer case in a perpendicular direction to the first armature coil part;

a rotor including a first, second and third shafts wherein the second shaft forms a predetermined interval between the first and third shafts to be coaxial with the first and the second armature coil parts of the stator;

a first permanent magnet rotor part having a plurality of cylindrically shaped permanent magnets arranged on the first shaft for linear movement of the rotor; and

a second permanent magnet rotor part having a plurality of elongated permanent magnets assembled coaxially along and around ~~an~~ an outer circumferential surface of the third shaft, ~~wherein the N pole, S pole of the second permanent magnet are arranged on an outer circumferential surface of the third shaft in the vertical direction in a rotation movement zone~~ for rotation of the rotor.

2. (cancelled)

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3. (cancelled)

4. (cancelled)

5. (cancelled)

6. (cancelled)